METHOD FOR FORMING AN INTEGRATED CIRCUIT INTERCONNECT USING A DUAL POLY PROCESS

ABSTRACT

A method for forming an electrical interconnect overlying a buried contact region of a substrate is characterized by a deposition of a first polycrystalline silicon layer and the patterning and etching of same to form a via. The via is formed in the first polycrystalline silicon layer to expose the substrate and a second polycrystalline silicon layer is formed in the via to contact the substrate. Portions of the second polycrystalline silicon layer overlying the first polycrystalline silicon layer are removed eliminating any horizontal interface between the two polycrystalline silicon layers. The first polycrystalline silicon layer remaining after the etch is then patterned to form an electrical interconnect.

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